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These evations arise from instrumental errors, as well as imperfectly known initial conditions;) Here r is the radius-vector of the point 0 of the object at which we find the sensitive masses of the Newtonometers of the inertial system; having origin at the center of the sarth 0, 6r is its variation; μ is the product of the gravitational comstant and the earth's mass, θ, is the orientation error of	BSTRACT: The error er fewtonometers and gyro	quations for an inertial scopic measurers of absort the state of a score	Δm × dr + r × dΔm		
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AUTHOR: Andreyev, V. D. (Moscow)

TITLE: Error equations of an inertial navigation system, determining the arbitrary curvilinear coordinates of a moving object

SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 4, 1965, 108-116

TOPIC TAGS: inertial navigation, inertial guidance, error analysis, tensor calculus, curvilinear coordinate

ABSTRACT: A set of equations is derived to describe the perturbed motion of an inertial system in curvilinear coordinates. The initial condition of the motion is assumed to be incorrect, and several errors exist in the navigational instruments. Three sets of error equations are derived which describe the motion and orientation of the object in space. These are given by

$$\begin{split} \partial \varkappa^{k} - + \frac{\mu}{r^{s}} \partial \varkappa^{k} + 2 \left(\Gamma^{k}_{mo} \varkappa^{kl} + \Gamma_{0o}^{k} \right) \partial \varkappa^{o} + \left[\varkappa^{m} \cdot \varkappa^{n} \cdot \left(\frac{\partial}{\partial \varkappa^{o}} \Gamma^{k}_{mn} + \Gamma^{n}_{mn} \Gamma_{oo}^{k} \right) + \right. \\ + \left. 2 x^{n} \cdot \left(\frac{\partial}{\partial \varkappa^{o}} \Gamma^{k}_{0m} + \Gamma^{n}_{0m} \Gamma^{k}_{oo} \right) + \left(\varkappa^{e} - + \Gamma^{o}_{0o} \right) \Gamma^{k}_{oo} + \frac{\partial}{\partial \varkappa^{o}} \Gamma^{k}_{0o} - \right. \\ - \left. \frac{\partial \mu}{\partial r^{s}} a^{kn} \frac{\partial r^{s}}{\partial u^{n}} \frac{\partial r^{s}}{\partial u^{n}} - \frac{\mu}{2r^{s}} \frac{\partial r^{s}}{\partial u^{n}} a^{mn} \Gamma^{k}_{mo} \right] \partial \varkappa^{o} = \Delta n^{k} - \varepsilon^{sik} \left[2 \Delta m^{p} a_{sp} a_{li} \left(\varkappa^{l} \cdot + a_{0}^{l} \right) + \right. \end{split}$$

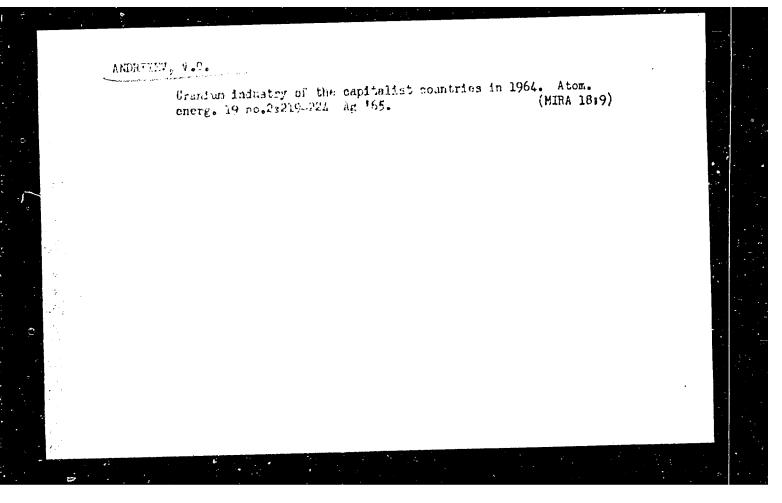
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ACCESSION NR: APS	$(21714) + a_{ns} (\Delta m^n + \Delta m^l (\Gamma_{lm}^n \kappa^m + \Gamma_{0l}^n)) \frac{1}{2} \frac{\partial r^s}{\partial \kappa^l} $	
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•	$\delta x_1^k = \epsilon^{sik} a_{ns} \theta^n \frac{1}{2} \frac{\theta r^s}{\theta u^t}, \qquad \delta x_2^k = \delta x^k + \delta x_1^k$	
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IVANOV, K.1.; ANDREYEV, V.D.; MANZIYENKO, G.G.; USEKOV, N.N.

Investigating the efficiency of using pistons of various design for rock breaking. Gor. zhur. no. 121/5-47 D '65.

(MIRA 18:12)



L 17854-66 EEC(k)-Z/EWT(d)/EWT(1)/EWA(d)/FSS-2 GW/BC

ACC NR: AP6004068

SOURCE CODE: UR/0040/65/029/005/0835/0845*

AUTHOR: Andreyev, V. D. (Moscow)

ORG: none

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TITLE: On equations of unperturbed work of an inertial system defining curvilinear coordinates

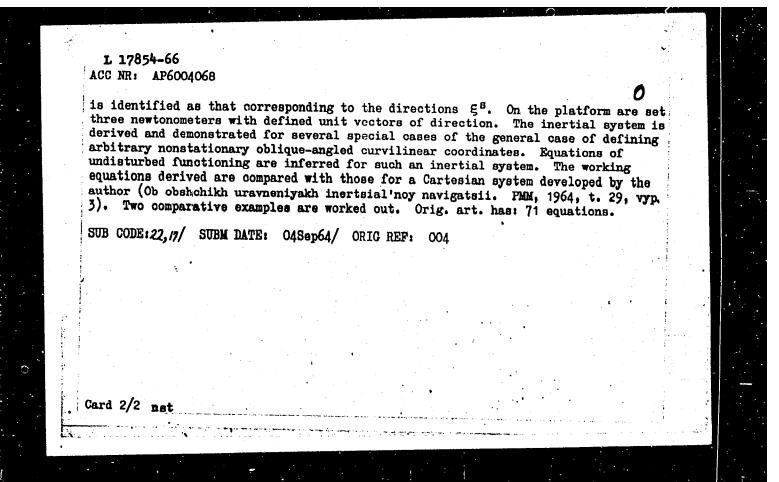
SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 5, 1965, 835-845

TOPIC TAGS: coordinate system, space accelerometer, space mechanics, space navigation, space tracking, inertial guidance system, gyrostabilized platform

ABSTRACT: An inertial system autonomously defining the coordinates of an object and the parameters characterizing its orientation in space is developed. A right-hand orthogonal system of coordinates $O_1\xi^2\xi^2\xi^2$ is used; the origin of the system is the center of the earth, and the orientation of axes is invariant with respect to directions from the center of the earth to outlying stars. The position of a moving object is defined in this coordinate system by coordinates x^2, x^2, x^2 , such that

 $\xi^{s} = \xi^{s} (x^{1}, x^{2}, x^{3}, t), \qquad J = \frac{D(\xi^{1}, \xi^{3}, \xi^{3})}{D(x^{1}, x^{1}, x^{3})} \neq 0$

The basis of the inertial navigation system is a gyrostabilized platform whose axis Card 1/2

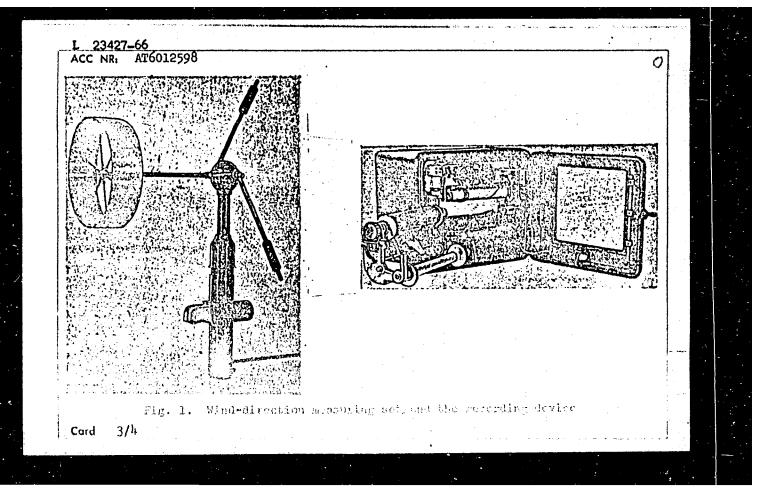


ACC NR. 1P6000550 SOURCE CODE: UR/0040/65/029/006/1108/1111 AUTHOR: Andreysv, V. D. (Moscow) ORG: none TITLE: On the theory of a pendulum-gyroscope system, satisfying the M. Shuler conditions SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1108-1111 TOPIC TAGS: gyroscope system, pendulum mechanics, perturbation theory, earth gravity ABSTRACT: The perturbed motions of pendulum-gyroscope systems are analyzed in a non-spherical terrestrial gravity field. To this end, an arbitrary mechanical system is considered, suspended on a moving object in the form of a three-power suspension such that the center of mass of the system does not coincide with the center of suspension. The distance between the center of mass C and the suspension O is denoted by "a" The distance between the center of mass C and the suspension O is denoted by "a" where K is the sum of kinetic moments of the system is given by K=a×(F-mr)+M°, where K is the sum of kinetic moments of the system and M is the sum of the moments relative to the suspension center. The porturbation motion of the system is analyzed for the conditions M_n^*=-aF_m. M_n^*=aF_m. M_n^*=0, Cord 1/2		BC BC		
ORG: none TITLE: On the theory of a pendulum-gyroscope system, satisfying the M. Shuler conditions SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1108-1111 TOPIC TAGS: gyroscope system, pendulum mechanics, perturbation theory, earth gravity ABSTRACT: The perturbed motions of pendulum-gyroscope systems are analyzed in a non-spherical terrestrial gravity field. To this end, an arbitrary mechanical system is spherical terrestrial gravity field. To this end, an arbitrary mechanical system is considered, suspended on a moving object in the form of a three-power suspension such that the center of mass of the system does not coincide with the center of suspension. The distance between the center of mass C and the suspension O is denoted by "a" satisfying the condition a - kr, where r is the distance between the point O and the satisfying the condition a - kr, where r is the distance between the point O and the satisfying the condition a - kr, where r is the distance between the point O and the searth's center. The equation of motion of the system is given by K = a × (F - mr) + M°, where K is the sum of kinetic moments of the system and N is the sum of the moments relative to the suspension center. The porturbation motion of the system is analyzed for the conditions M = - a P M M = - a P M M M = 0,	ſ	I. 9626-66 EWT(d)/FSS-2/EEC(k)-2/EWA(o) BC SOURCE CODE: UR/0040/65/029/006/1108/1111		
SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1108-1111 TOPIC TAGS: gyroscope system, pendulum mechanics, perturbation theory, earth gravity ABSTRACT: The perturbed motions of pendulum-gyroscope systems are analyzed in a non-spherical terrestrial gravity field. To this end, an arbitrary mechanical system is considered, suspended on a moving object in the form of a three-power suspension such that the center of mass of the system does not coincide with the center of suspension. The distance between the center of mass C and the suspension 0 is denoted by "a" The distance between the center of mass C and the suspension 0 is denoted by "a" The distance between the center of mass C and the suspension 0 and the satisfying the condition a = kr, where r is the distance between the point 0 and the earth's center. The equation of motion of the system is given by K' = a × (F - mr) + M°, where K is the sum of kinetic moments of the system and N is the sum of the moments relative to the suspension center. The porturbation motion of the system is analyzed for the conditions M' = -eF_m, M' = eF_m, M' = 0, Cord 1/2				
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where K is the sum of kinetic moments of the system and M is the sum of the moments relative to the suspension center. The porturbation motion of the system is analyzed for the conditions $M_{w^0} = -eF_{x^0}$, $M_{x^0} = eF_{y^0}$, $M_{x^0} = 0$,		spherical terrestrial gravity field. To this end, at the form of a three-power suspension such considered, suspended on a moving object in the form of a three-power suspension such that the center of mass of the system does not coincide with the center of suspension. The distance between the center of mass C and the suspension O is denoted by "a" the distance between the point O and the satisfying the condition a = kr, where r is the distance between the point O and the satisfying the condition of motion of the system is given by K' = a × (F - mr') + M°		
for the conditions $M_{W} = -eF_{x_0}$, $M_{x_0} = eF_{y_0}$, $M_{x_0} = 0$, Card $1/2$		where K is the sum of kinetic moments of the system and M is the sum of the moments where K is the suspension center. The perturbation motion of the system is analyzed	-	
		for the conditions $M_{w} = -aF_{m}$, $M_{m} = aF_{w}$, $M_{m} = 0$,		
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leading to the vector	$K_{x_0} + mav_{y_0} = 0,$	$K_{y_0} - mav_{x_0} = 0, K_{z_0}$	= 0 _{,}}	
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23427-66 EWT(1)/FCC ACC NR: AT6012598 SOURCE CODE: UR/3201/65/000/002/0114/0122 29 AUTHOR: Klinov, F. Ya.; Andreyev, V. D.; Poltavskiy, V. V.; Lobova, L. Ye. 23 Institute of Applied Geophysics (Institut prikladnoy geofiziki) TITLE: Measurement of two wind-direction components at the high meteorological tower SOURCE: Leningrad. Institut prikladnoy geofiziki. Trudy, no. 2, 1965. Pogranichnyy sloy atmosfery (Boundary layer of the atmosphere), 114-122 TOPIC TAGS: micrometeorology, meteorological instrument, meteorological tower, wind measuring set, bivane ABSTRACT: A wind-direction measuring set is used to measure the horizontal and vertical components of the direction of the wind-velocity vector. The set consists of transducers whose sensing element is a special "bivane," a recorder, a digital printing device, and a power supply; it is installed on the high meteorological tower of the Institute of Applied Geophysics. The bivane consists of a three-arm system balanced on a column, the arms being set 120° apart. A ring stabilizer is mounted on the end of one arm, 320 mm from the system's center of rotation. It was established experimentally that the flew of air is distorted by the transducer easing to a distance not more than 200-250 mm from the casing; thus the stabilizer is within the undisturbed first, which ensures accounte tracking of wind directions (within the limits of system errors). The instrument and the bivane are described. At Cord 1/4 UDC: 551.506+508+508.2+508.5+510

L 23427-66 ACC NR. AT6012598 present, the transducers are installed on 5 levels of the tower; the threshold sensitivity (both vertical and horizontal) of the transducers is about 0.6 m/sec. If the initial mismatch between the bivene and the wind direction is 0° or 180°, the threshold value is higher-1.0-1.3 m/sec. The principle measurement errors are: 1) error in the horizontal orientation of transducers relative to the mire on the working levels-1.5-2.0°; error due to mismatch of the servosystem-1.0-3.0° (transducer selsyn, 0.5-1.0° and sensor selsyn, 0.75-1.5°); 3) error in readings from the diagram tape in the recording system—2.5°. Thus, the total error in measuring wind directions is about 5—7° (see Fig. 1). Some variations in profiles of the wind direction in the lower 300 m of the atmosphere are shown. These profiles were constructed for 30-min intervals, which permitted stable forms of curves that represent "sets" of possible forms of wind-direction profiles in the layer (see Table 1). One group of profiles shows a shift to the right with height in the wind direction throughout the entire layer (I,II), and to the left (XVI-XVIII); in a number of cases, the wind direction was constant throughout most of the entire layer (IV); there were layered combinations of right and left shifts in the wind along with constant directions (X, XII). The recording bivane was designed and tested under the supervision of G. I. Tsitsurin. N. P. Tofenchuk, V. S. Storozhka, V. G. Stefanov, and G. S. Vasil yev participated in developing the wind-direction measuring set installed on the high tower and procedures for two-dimensional wind Card



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L 27509-66 ACC NR: AP6011126 SOURCE CODE: UR/0424/66/000/001/0014/0019 AUTHORS: Andreyev, V. D. (Moscow); Devyanin, Ye. A. (Moscow); Dem'yanovskiy, A. P. (Moscow) ORG: none The theory of inertial systems containing no gyroscopic sensing elements Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 1, 1966, 14-19 SOURCE: TOPIC TAGS: inertial navigation equipment, ordinary differential equation, error analysis, gravitational potential, Laplace equation ABSTRACT: The possibility is investigated of using an inertial guidance system 7 (Newtonometers) without the presence of gyroscopic sensing elements. For an object moving near the terrestrial surface, it is assumed that there exists a trihedron attached to a platform, denoted by $0x_1x_2x_3$. To this trihedron are attached four triple-Newtonometers, the sensitive mass of one of which is at point O, and the others on the axes x1,x2,x3. It is then shown that for a gravity potential satisfying the Laplace equation the complete information obtained from these Newtonometers (without gyroscopic sensitive elements) can be expressed by the group Card 1/2

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SOURCE CODE: UR/0040/66/030/002/0410/0413

AUTHOR: Andreyev, V. D. (Moscow)

ORG: none

TITLE: Solution of the Stokes problem for a level surface represented as a spheroid SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 2, 1966, 410-413

TOPIC TAGS: convergent series, earth gravity, gravitation field, coordinate system, earth planet, earth rotation

ABSTRACT: Explicit expressions for projections of the strength of the regularized gravity field of the earth outside of and on its surface are obtained in the form of special, rapidly convergent series. A right-hand orthogonal coordinate system Olxyz with its origin at the center of the earth is introduced. The following expressions Obtained by solution of the Stokes problem for a level surface in the form of a Clairant ellipsoid) for these projections at an external point O relative to the

 $F_x = -Pz + C \frac{\partial K}{\partial z}$, $F_y = -Py + C \frac{\partial K}{\partial y}$, $F_z = -Qz + C \frac{\partial K}{\partial z}$

Determination of the position of point 0 in the coordinate system leads to the

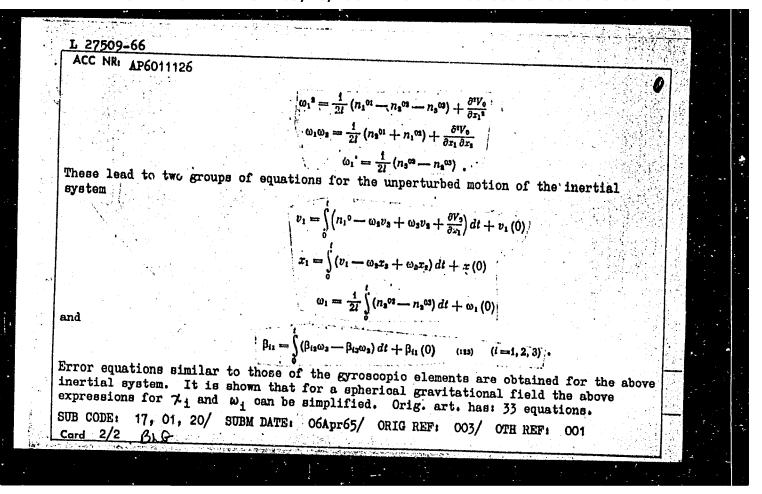
Card 1/2

Card 2/2 77/3

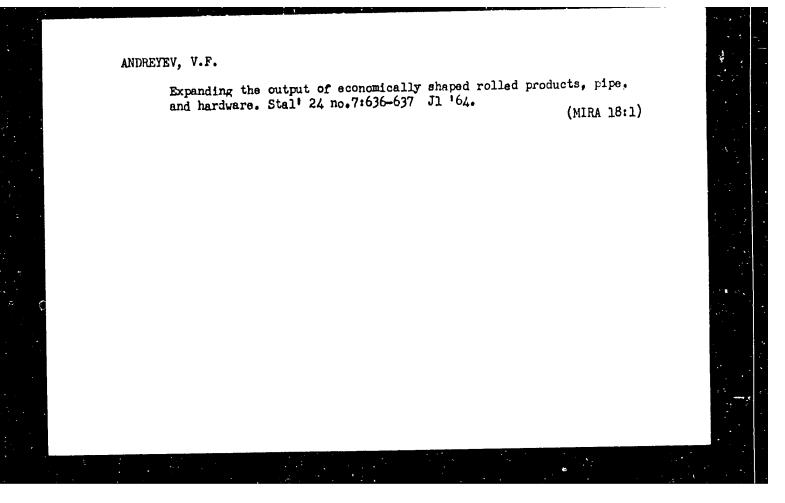
APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101520012-9"

SOURCE CODE: UR/0424/66/000/001/0014/00 Andreyev, V. D. (Moscow); Devyanin, Ye. A. (Moscow); Dem'yanovskiy, A. P. AUTHORS: (MOSCOW) ORG : none TITLE: The theory of inertial systems containing no gyroscopic sensing elements SOURCE: Inshenernyy zhurnal. Mekhanika tverdogo tela, no. 1, 1966, 14-19 TOPIC TAGS: inertial navigation equipment, ordinary differential equation, error analysis, gravitational potential, Laplace equation ABSTRACT: The possibility is investigated of using an inertial guidance system A (Newtonometers) without the presence of gyroscopic sensing elements. For an object moving near the terrestrial surface, it is assumed that there exists a trihedron attached to a platform, denoted by $0x_1x_2x_3$. To this trihedron are attached four triple-Newtonometers, the sensitive mass of one of which is at point 0, and the others on the axes x1,x2,x3. It is then shown that for a gravity potential satisfying the Laplace equation the complete information obtained from these Newtonometers (withou groscopic sensitive elements) can be expressed by the group, 11,0 = 01 + Wave - Wave -



L 06205-67 EWT(d) ACC NR. AP6024186 SOURCE CODE: UR/0424/66/000/002/0003/0010 AUTHORS: Andreyev, V. D. (Moscow); Novozhilov, I. V. (Moscow) 45 ORG: none B TITLE: On controlling the motion of an object by newtonometer readings Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 2, 1966, 3-10 SOURCE: TOPIC TAGS: accelerometer, newtonometer, trajectory determination, navigation, inertial navigation ABSTRACT: A study is made involving the instantaneous control of the center of mass motion for a solid object by means of newtonometer readings, without determination of the coordinates of the object. This study is performed by analyzing the equations of motion of an object along a programmed trajectory. A right-handed orthogonal coordinate system is introduced in which the position of the center of mass of the object is referenced with respect to an origin at the center of the earth. Definitions are made for several variables describing the geometric system and also the characteristics of the newtonometer. The discussion proceeds to the consideration of how the signal of the newtonometer is converted into directional control of the object. This leads to the stating of a system of equations relating the motion of the center of mass of the object to its programmed position. The system is transformed into a system in Card



SOV/133-58-6-29/33

AUTHOR: Andreyev, v.F., Candidate of Economic Sciences

TITLE: On the Economic Effect of the Application of Oxygen in

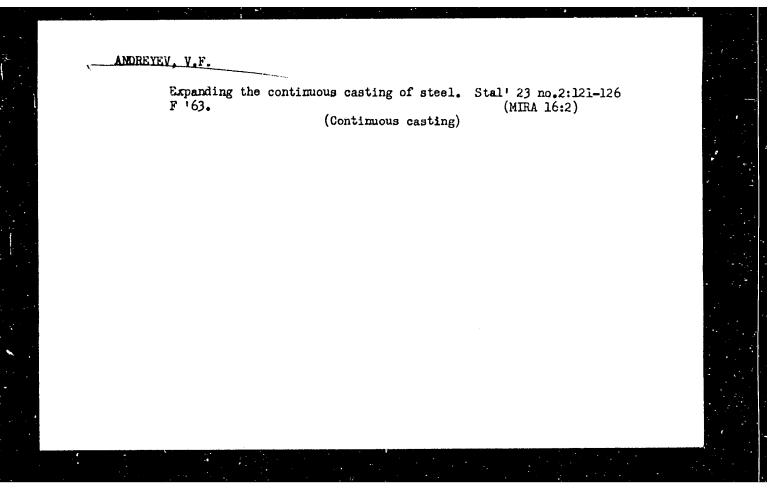
the Iron and Steel Industry (Ob ekonomicleskoy effektivnosti

primeneniya kisloroda v chernoy metallurgii)

PERIODICAL: Stal', 1958, Nr 6, pp 561 - 568 (USSR).

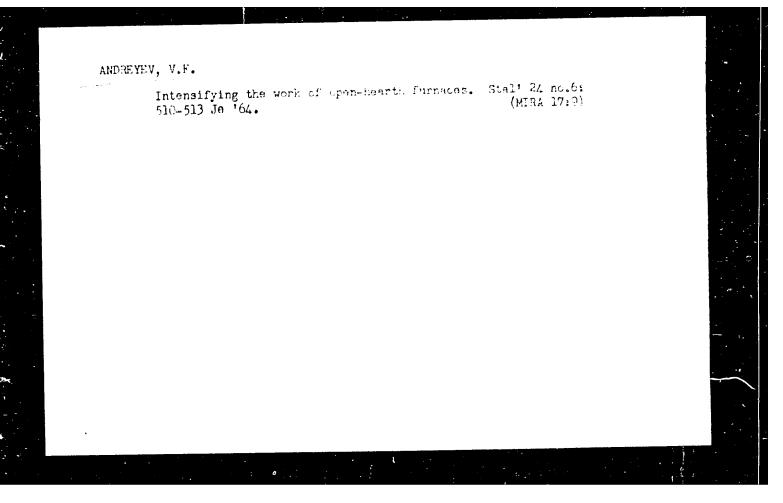
ABSTRACT: Economics of the application of oxygen in open-hearth furnaces, converters, electric furnaces and blast furnaces is discussed. It is concluded that the rain economic advantage of the application of technically fure oxygen for shelting from and steel is an increase in the output of blast furnaces and steel-making furnaces with a lower expenditure for this increase of means of production and time than by creating an additional productive capacity. The possibilities of decreasing costs of production depend on the cost of oxygen and on the actual conditions of its utilisation. There are 13 references, 8 of which are Soviet, 3 English and 2 German.

1. Furnaces--Operation 2. Oxygen--Economic aspects 3. Steel industry Card 1/1 --USSR 4. Iron industry--USSR



KUCHERSKIY, L.V.; GETSEN, E.K.; SKRYABIN, V.A.; KONONENKO, N.1.; KOLESOV, I.M.; ANDREYEV, V.F.

Industrial safety in carrying out and cementing development workings during the occurrence of oil and gas. Nauch. trudy Perm NIUI no. 4:103-126 162. (MIRA 17:6)



ANDREYEV, Viktor Fedorovich, kand. ekon. nauk; BANNYY, Nikolay.

Pavlovich, dots., kand. ekon. nauk; GORELIK, Iosif
Grigor'yevich, dots., kand. ekon. nauk [deceased];
KATYSHEV, Viktor Leonidovich; OBLOMSKIY, Yakov Antonovich,
dots., kand. ekon. nauk; PEKELIS, Isay Borisovich;
BINEGIN, Ivan Ivanovich; PRIYMAK, Ivan Andreyevich, prof.,
doktor tekhn. nauk [deceased]; ROYTBURD, Lazar' Nisonovich,
prof., doktor tekon. nauk; ROMANOVICH, Nikolay Dmitriyevich;
BORDIN, M.M., retsenzent; BRYUKHANENKO, B.A., dots., kand.
ekon. nauk, retsenzent; KHUTORSKAYA, Ye.S., red.izd-va;
KARASEV, A.I., tekhn. red.

[Economics of ferrous metallurgy in the U.S.S.R.] Ekonomika chernoi metallurgii SSSR. [By] V.F.Andreev i dr. Pod red. chernoi metallurgii SSSR. [By] V.F.Andreev i dr. Pod red. L.N.Roitburda i N.P.Bannogo. Moskva, Metallurgizdát, 1963.

(MIRA 16:5)

(Iron industry) (Steel industry)

Mycoses in leprosy. Vest. derm. i ven. no.4:15-20 '62.

(MIRA 15:4)

1. Iz kliniki kozhnykh i venericheskikh zabolevaniy (zav. zesluzhennyy deyatel' nacki prof. I. N. Perevodchikov[deceased])
Astrakhanskogo meditsinskogo instituta (dir. - dotsent I. N.
Alamdarov) i Vsesoyuznogo nauchmo-issledovatel'skogo instituta
po izucheniyu lepry (dir. - kandidat meditsinskikh nauk V. F.
Shubin)

(MYCOSIS) (LEPROSY)

ANDREYEY, V.G., kandidat meditsinskikh nauk; FATEULLINA, G.A., vrach;

EXMARNYA, R.I., vrach.

Cameative agents of fungous disease among the inhabitants of Astrakhan'
Province. Vest.ven. i derm. no.3:58 My-Je '53. (NLMA 6:7)

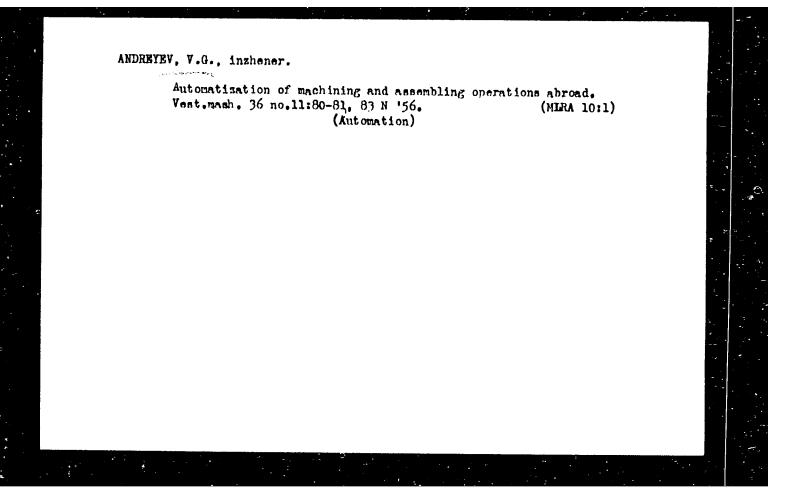
1. Astrakhanskiy meditsinskiy institut.

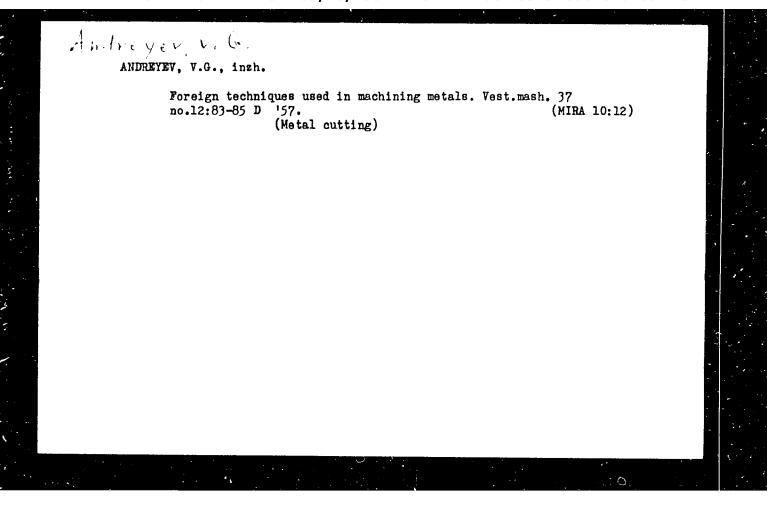
(Astrakhan' Province--Medical mycology)

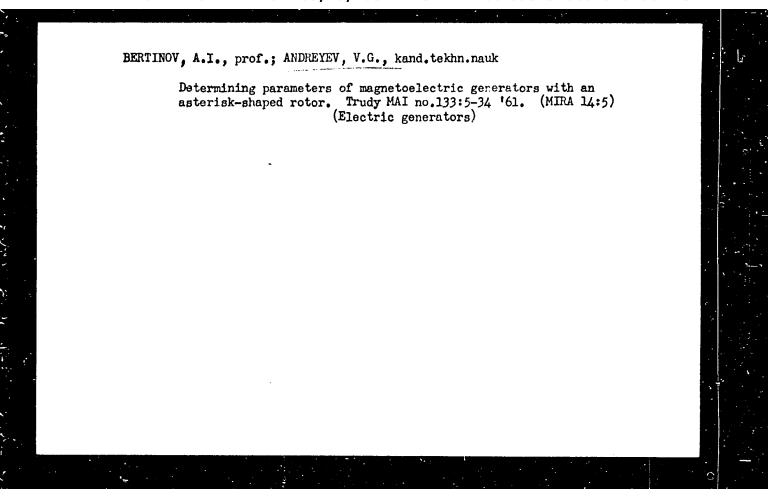
ANDREYEV, V. G., Doc of Med Sd -- (diss) "Micosis in Persons Afflicted with Leprosy," Leningrad, 1959, 17 pp (1st Leningrad Medical Institute im Pavlov) (KL, 5-60, 129)

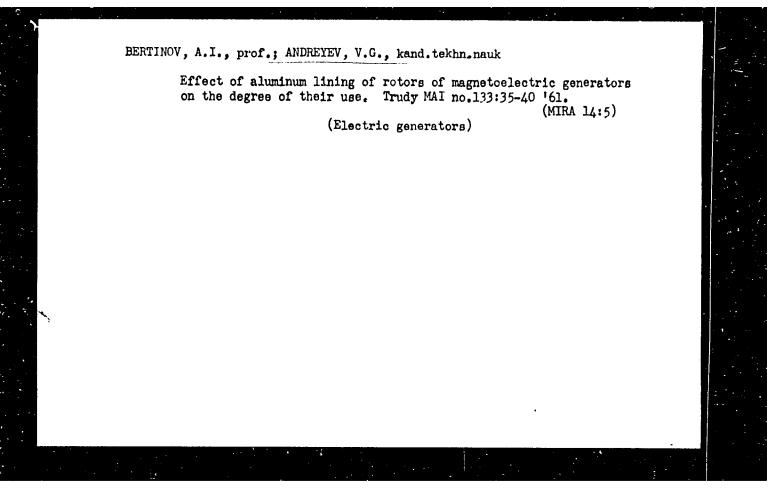
- 1. ANDREYEV, V.G.
- 2. USSR (600)
- 4. Fishing
- 7. Rechanization of catching sprat by electric light, hyb.khoz. 29 no. 3, 1953.

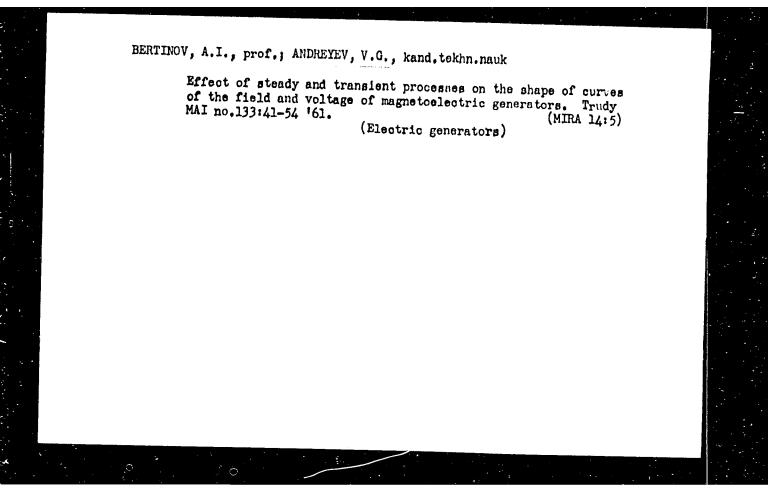
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.











ANDREYEV, V.C., frot.

Pathagens of dormatomycore, in Kurrk movince, Vest. derm. 1 ven.
38 no.4:85-80 Ap '64. (MIRA 18:4)

1. Klinika kezhayah i venericheskih selezney Kurskogo meditainskogo instituti.

L 11263-66 ACC NR. AP6000430

SOURCE CODE: UR/0292/65/000/010/0008/0011

AUTHOR: Bertinov, A. I. (Doctor of technical sciences; Professor);

Andreyev, V. G. (Candidate of technical sciences); Golubenko, Ya. A. (Engineer

ORG: none

TITLE: Magnetic-field distribution in contactless electric machines with an

externally closed magnetic circuit

SOURCE: Elektrotekhnika, no. 10, 1965, 8-11

TOPIC TAGS: electric machine, electric generator

ABSTRACT: Unipolar magnetic fluxes were measured by a ballistic method; magnetic test coils were pasted over the external magnetic circuit. Experimental investigation has shown that a considerable alternating component of the working flux passing through the external frame reduces the efficiency and heats up the generator frame. This component amounted to 12% of the total flux (or to 23% of the working flux) in the case of no air gap between the stator core and the machine frame. The gap presence increased the magnetic flux in the stator core and decreased the

Card 1/2

UDC: 621.313.32.013

ACC NR. AP6000430 alternating flux in the machigh-frequency high-speed the working (or 16% of the 1 table.	machines. The end	leakage flux amoun	ted to about 28%	of	
SUB CODE: 09 / SUBM DA	TE: none				
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Card 2/2					

L 07333-67 EWT(1)ACC NR: SOURCE CODE: UR/0057/66/036/010/1851/1859 AP6033421 AUTHOR: Andreyev, V. G. ORG: none TITLE: An open-cavity resonator for the radio-frequency range Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1851-1859 SOURCE: TOPIC TAGS: resonator, cavity resonator, open cavity resonator, radio frequency resonator, radio frequency cavity reconator, signal ABSTRACT: A new type of open-cavity resonator with an expanded area of applications and increased frequency range was investigated theoretically and experimentally. The resonator is composed of two parallel, coaxial, highly conductive disks with 'the space between them occupied by a number of washer-like rings of smaller diameter at equal or progressively changing distance between them. An analytical method is presented for calculation of the system's parameters. The method is then used for the determination of the dimensions of resonators excitable in the ${
m TM}_{02n}$ mode. The results are presented in a series of graphs showing 1) the dependence of the resonance wavelength on the geometry of the system, 2) the effect of the diameter of the end disks on the radiation into space, 3) the effect of the position of the connecting rods, and 4) the loss of high-frequency energy in the rings and in the end disks. An experimental model of the resonator was built and investigated in the SHF (10-cm **Card** 1/2 UDC: 621.372.413

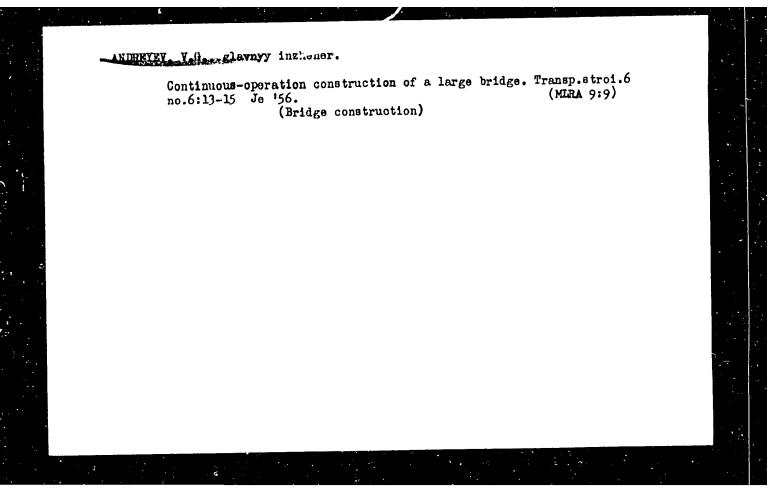
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C NR: AP6033421		Ŀ
welength) range. With metal connecting rods, the resonance frequency	was 3120 Mc;	
l+40 mode was used resonance frequiency WAS 3040 MC. About to	to to bereene	
the enount was radiated into space. High-frequency losses were loud	t to depend on	
	gyra, one	
minum neight actualiding with the mogition of the Zero axial component	Of our excemina	
eld. The natural frequencies of the system (with 7 sections) were inv	magnetic	
thin the 2000 to 4000-Mc range. Five frequency groups of transverse modellations were detected, of which only one (the TM_{02}) had an electric	field on the	
in the addition to redio frequency generation. Buch resolutions will t	te aperar in	
ecclerator and measurement technology. Orig. art. has: 9 figures and 2	25 formulas.	
B CODE: 29/SUBM DATE: 05Nov65/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS	3: 2101	
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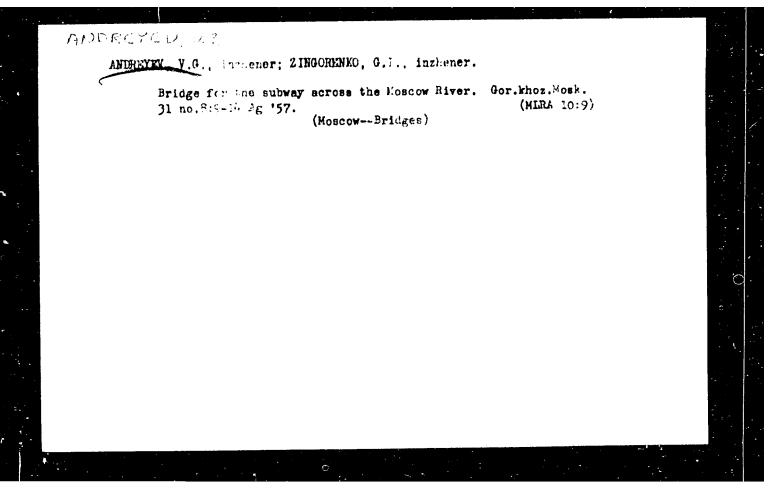
BERTINOV. 1.1. doktor tekhn.nauk, frof., AMDRIVEV, V.C., kund.tekhn.nauk;

(7.196/380. Ya.A., inzh.

Magnatic field distribution in brushlers electrical machines with
externally short-circuited magnatic circuits. Flektrotekhnika 36
no.10:8-11 0 165.

(NYPA 18:10)





ANDREYEV, V.G., insh.; ZINGORENKO, G.I., insh.; RUDOMAZIN, N.N., insh.

Constructing a bridge over the Moskva River in Luzhniki.

Transp. stroi. 8 no.959-15 S '58. (MIRA 11:10)

(Luzhniki--Bridges, Concrete)

SOV/97-58-11-1/11

AUTHORS: Andreyev, V.G., Zingorenko, G.I. and Rudomazin, H.N.

(Engineers)

TITLE: New Two-Tier Bridge in Moscow (Novyy zhelezobetonnyy

dvukh"yarusnyy most v Moskve).

PERIODICAL: Beton i Zhelezobeton, 1958, Nr.11, pp.401-410 (USSK)

ABSTRACT: This reinforced concrete bridge over the Moskva river in

the Luzhniki district of Moscow is nearing completion. On one side of the bridge is a 44 m long ramp and a 653 m long raised road carried on reinforced concrete supports. This road is in the precincts of the sports ground. The bridge spanning the river is 198 m long. On the other side of the bridge a similar raised road continues leading into a new road cut through the Lenin Hills. Here the Vorch yevskiy road viaduct is situated. The top tier of the bridge is 21 m wide and is used for vehicle traffic. The bottom tier carries two underground railway lines. The bridge is constructed predominantly

from precast reinforced concrete. Elements for the

Card 1/4 construction of the bridge were manufactured in factories

New Two-Tier Bridge in Moscow.

SOV/97-58-11-1/11

They were assembled with bridge of Glavmosstroy. cranes of 50 m span and 45 t capacity, derrick cranes of 35 t capacity and lorry-mounted cranes. The work was started by Mintransstroy in May 1957. aimed to build a very light bridge as the permanent loading is only 70% of the maximum loading. The frame was constructed of concrete mark 500, the cross members of concrete mark 400 and a considerable number of other non-structural members were made from Keramzit concrete mark 200. Fig.1 shows the lay-out; Fig.2, perspective view of the bridge, and Fig. 3 the constructional scheme The central span of the bridge is 108 m of the same. and the end spans are 45 m each. Two methods of calculation were used which gave similar results (diagrams in Fig. 4). Fig. 5 shows 2 precast segmental arches of an 'E' cross section forming part of an inner arch. consists of a precast reinforced concrete unit (Fig. 7), the reinforcement being a 45 mm diameter cable, formed from 3 mm diameter wires, with breaking limit of 180 kg/mm². This reinforcement is grouped together, situate This reinforcement is grouped together, situated

Card 2/4

New Two-Tier Bridge in Moscow.

SOV/97-58-11-1/11

along the tie-unit and clipped to it at intervals of 2.2 m (Fig.6). This exposed reinforcement will be examined after 18 months to 2 years to ascertain the magnitude of elongation and will be concreted in after rectification. The precast prestressed stiffening beams are tensioned by a series of hydraulic jacks (Fig. ?). The larger stiffening beams between the internal arcnes are tensioned to a total stress of 4000 t by ten 500 t capacity hydraulic jacks. A similar tensioning is applied to the external arches by four jacks effecting a tension of 1650 t. Fig.8 shows a cross-section of the bridge at the lower tier level, Fig.9 the lay-out of the beams in the upper tier; Fig.10, cross-section of the upper tier of the bridge; Fig.11, the saddle detail of the arch This type of saddle does not introduce complementary moments due to forces acting in the horizontal The scaffolding used for the assembly of the bridge was erected on the river bank; this scaffolding was "Mostotrest" standard steel construction. The total weight of the bridge construction is 5000 t.

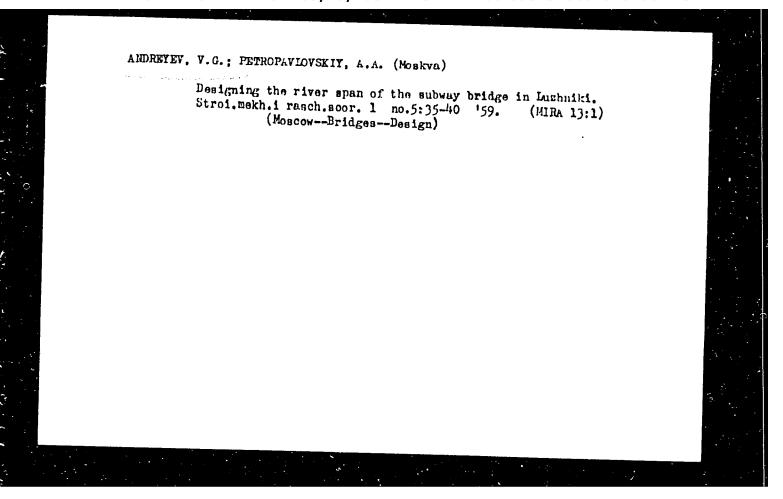
Card 3/4

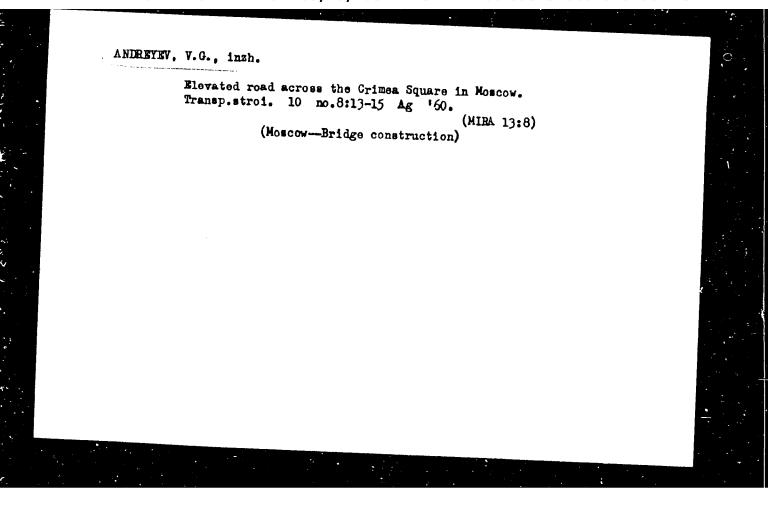
New Two-Tier Bridge in Moscow.

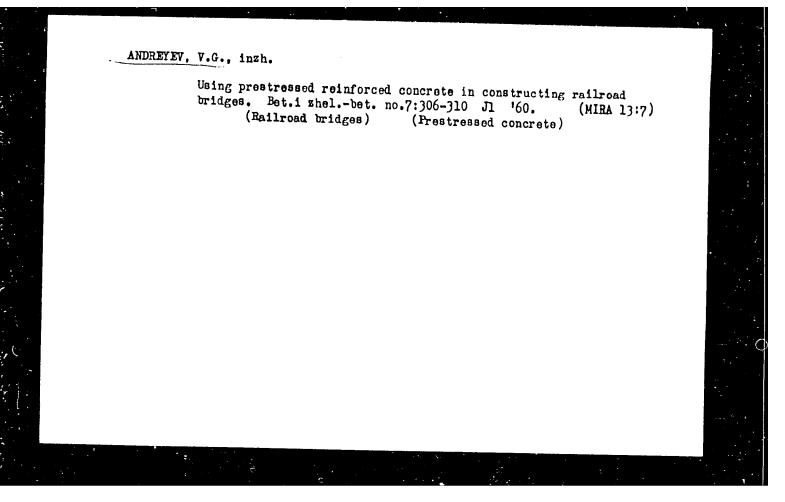
507/97-56-11-1/11

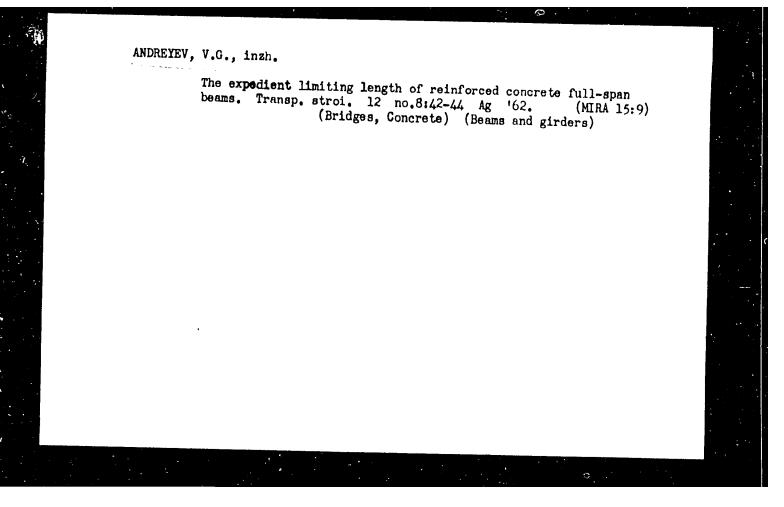
assembled unit was transported by means of special supports onto pontoons and placed on the bridge piers (Fig. 12). Fig. 14 shows the lay-out of the pontcons. The bridge piers were constructed on reinforced concrete piles, 40 x 40 cm in cross section, driven 12-15 m below the base of excavation (Fig. 15). Each pier is carried on 256 piles. The height of the piers, including the foundation, is 8 m; their length is 40.0 m. The elevated road was constructed from precast stanchions, situated 23.7 m apart and bridged over by cantilevered trusses, the latter spanning 13.5 m and cantilevered out for 5.62 m on both sides (Figs. 16 and 17). The roadway is formed of prestressed reinforced concrete "U" shaped beams weighing 38 t (Fig.18). These beams are covered with precast slabs which are joined with in situ concrete (Fig. 19). There are 19 figures.

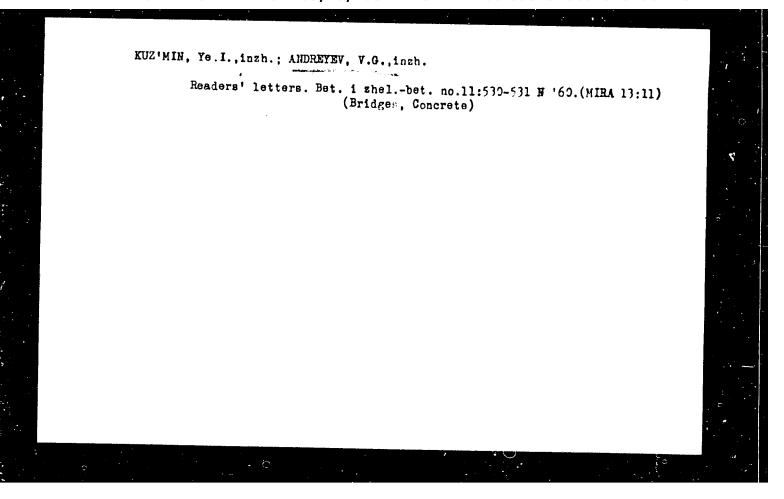
Card 4/4











ANDREYEV, V.G., inzh.

Manufacture and assembly of spans for the city bridge in Leninbad.

Transp.stroi. 13 no.9:12-15 S '63.

ANDREYEV, V.G.

Bridge construction during the past 10 years. Transp. stroi.
14 no.10:4-7 0 '64. (MIEA 18:3)

1. Nachal'nik tekhnicheskogo otdela Glavnogo upravleniya po stroitel'stvu mostov Ministerstva transportnogo stroitel'stva SSSR.

ANDREYEV, V.G., gornyy inzh.; D'YAKONOV, L.D., gornyy inzh.

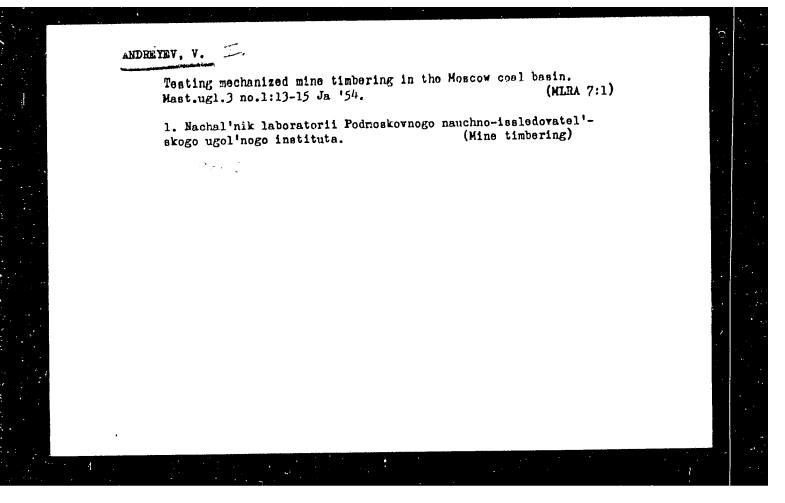
Testing systems of dry centralized dust collecting during boring with a column hammer drill. Gor. zhur. no.4:64-67 Ap '65. (MIRA 18:5)

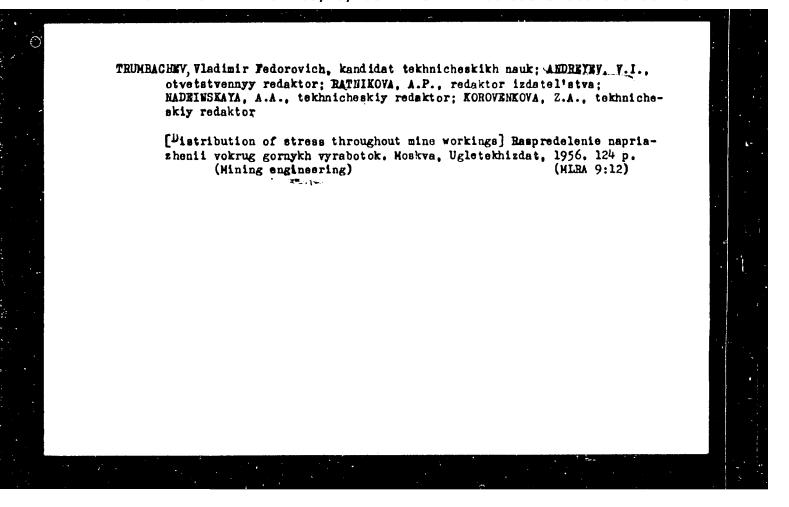
1. Nauchno-issledovatel'skiy i proyektnyy institut "Gipronikel'", Leningrad.

ANDREYEV, V. I.

"Investigation of Mine Pressure in the Shield Lavas of the Moscow Basin." Cand Tech Sci, Podmoskovnyy Sci-Res Coal Inst (PNIUI), Moscow, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55





SPIVAKOVSKIV, Aleksandr Onisimovich, prof.; POD"TENSHCHIKOV, Turiy
Konstantinovich, dots., kand. tekhn. nauk; ANDRETEV, V.I., otvetstvennyy red.; ALADOVA, Ye.I., tekhn. red.

[Movable mechanized timbering] Peredvizhnye mekhnizirovannye krepi.
Moskva, Ugletekhnizdat, 1958. 249 p. (MIRA 11:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Spivakovskiy).

(Mine timbering)

Using geological and geophysical data for evaluating the iron potential of deep horizons in the Tashtagol deposit. Geol.i geofiz. no.8:82-94 '61. (MIRA 14:9)

1. TSentral'naya geofizicheskaya ekspeditsiya, Stalinsk. (Gornaya shoriya—Iron ores)

ANDREYEV, V.I., dotsent, kand. tekhn. nauk

Movement of side rocks in the operation of portable mechanized

supports in Moscow Basin mines. Nauch. trudy Tul. gor. inst. no.4:34-54 '61. (MIRA 16:8)

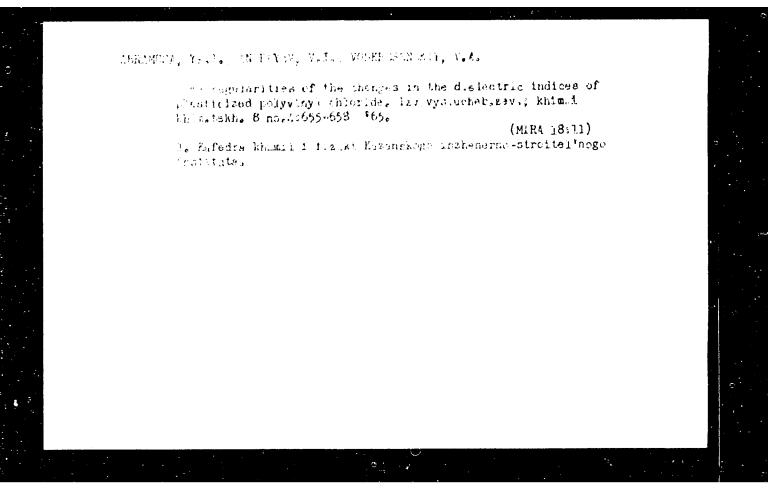
(Moscow Basin-Rock pressure)
(Mine timbering)

ANDREYEV, V.I.; MEL'NIKOV, L.A.

Magnetic logging device for measuring the susceptibility of rocks and ores. Shor.luch.rats.predl. pt. 2:38-45 '63.

(MIRA 17:5)

1. Severo-Kazakhstanskoye geologicheskoye upravleniye.



SPEYSHER, Vladimir Anatol'yevich; ANDREYEV, Vladimir Il'ich; KHITRIN, L.N., otvetstvennyy redaktor; ORIGOR'YEV, Ye.M., redaktor izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy redaktor

[Combustion of gas obtained by underground gasification in tunnel burners with premixtures] Szhiganie gaza podzemnoi gazifikatsii v tunnel'nykh gorelkakh predvaritel'nogo smesheniia. Noskva, Izd-vo Akademii nauk SSSR, 1956. 67 p. (MLRA 9:7)

1. Chlen-korrespondent AN SSSR (for Khitrin) (Coal gasification) (Combustion)

Moscow Power Eng. Post. in A. M. Meublist anovelby, Acad. Sci. USER

Experiments with tunnel burners having high individual capacities and high rates of heat release are recorded.

SOV437 59 1 2241

Translation from: Referatively zhurral Metallurg a 1959 Nr 2 p 3 (USSR)

AUTHORS: Speysher, V. A., Andreyer, V. J.

TITLE: Effect of Preheating of Gascair Mox ures on the Stablisty of Ignation in

Tunnel Burners (Vliyaniye podogrena pazo ezdustnykh smesev na

ustoychivost zazhiganiya v tume evke gerelkakh)

PERIODICAL: Visb.: Issled. protsessov goreniva - Moscow - AN SSSR - 1958

pp 27-30

ABSTRACT: The authors investigated the range of scale life of the ignition of pre-

heated gas air mixtures in tunied biomers or a large taboratory apparatus by the method of a slow (incremental) approach to the pre-

separation conditions with periods subsciently long tor the establishing

of a constant tunnel temperature at each intermediate step. Mixtures containing 99% CH4 and 99% H2 were heated to 100, 200, 300, and

400°C. At the maximum prehenting of the mixture the limiting excess

air factor increases by 100-1500 c

N - V

Card 1/1

11.7430 11.7200 8/112/59/000/014/008/085 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, pp.18-19 # 28650

AUTHORS:

Volodina, L. A., Andreyev, V. I.

1

PITLE:

The Effect of Air Preheating on the Process of Flame Stabilization by Poorly Streamlined Bodies in the Open Flow

PERIODICAL: V st.: Issled. protsessov goreniya, Moscow, AN SSSR, 1958, pp.36-33

The effect of air preheating on the stabilization limits of methameair flame was studied. The investigation was carried cut on a round burner made of stainless steel 18 mm in diameter at outflow speeds of 20-200 m/sec. The air was preheated enabling to raise the temperature of mixture at the stabilizer up to 400°C. Tapers 5, 7, and 9 mm in diameter placed on the edge of the burner were used as stabilizers. In the first series of experiments the effect of air preheating at a taper 7 mm in diameter was investigated; in the second series of experiments the effect of the size of the taper on the stabilization limits with respect to the air excess ratio and the speed of the mixture

Card 1/2

84430 \$/112/59/000/014/008/085 \$052/\$001

The Effect of Air Preheating on the Process of Flame Stabilization by Poorly Streamlined Bodies in the Open Flow

was investigated. For poor mixtures the effect of preheating is much more essential than for the rich ones. An increase in the diameter of a stabilizer at the same temperature of the flow leads to a widening of stabilization limits.

A, D, A,

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

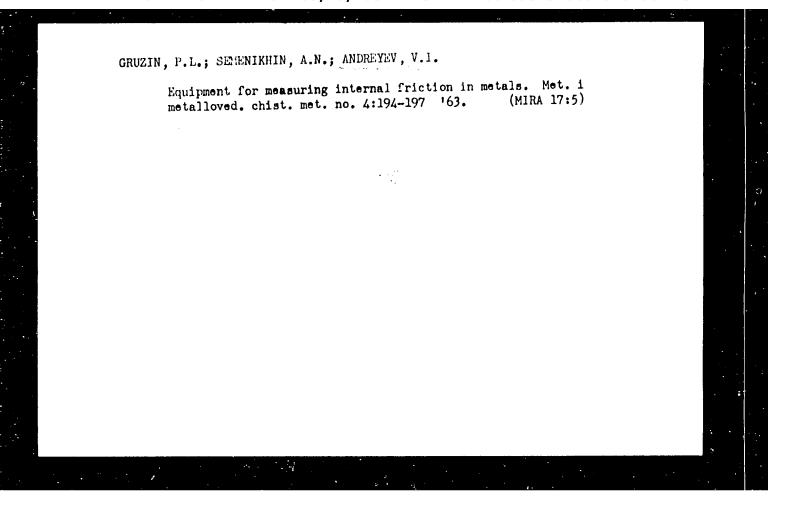
SPETSHER, V.A.; ANDREYEV, V.I.; SHIMAMOVSKIY, O.V.

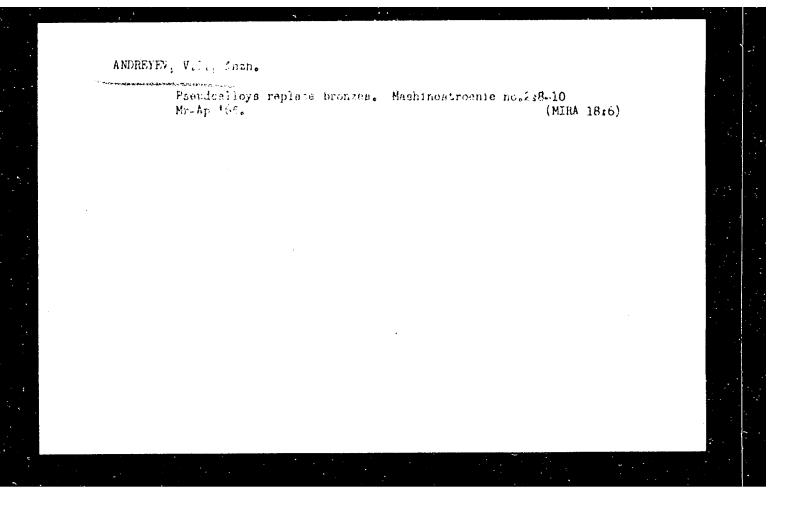
Powerful tunnel-type burner for the combustion of low-calcrific power gases. Gaz.prom. 5 no.7:20-26 '60.

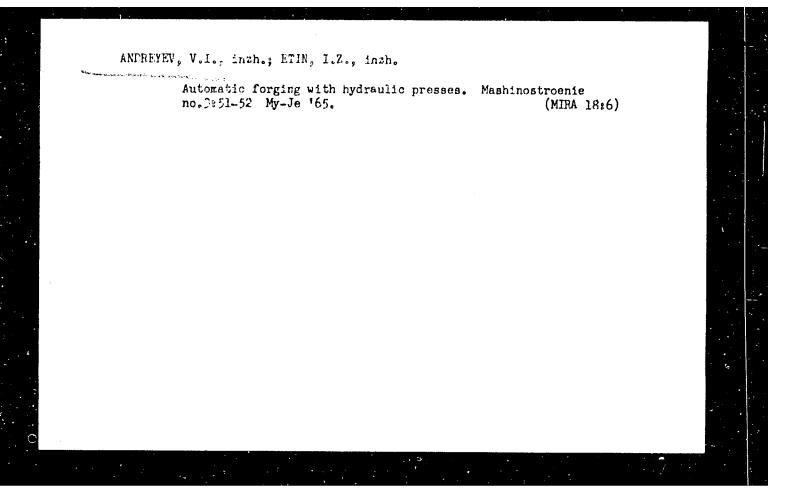
(MIRA 13:7)

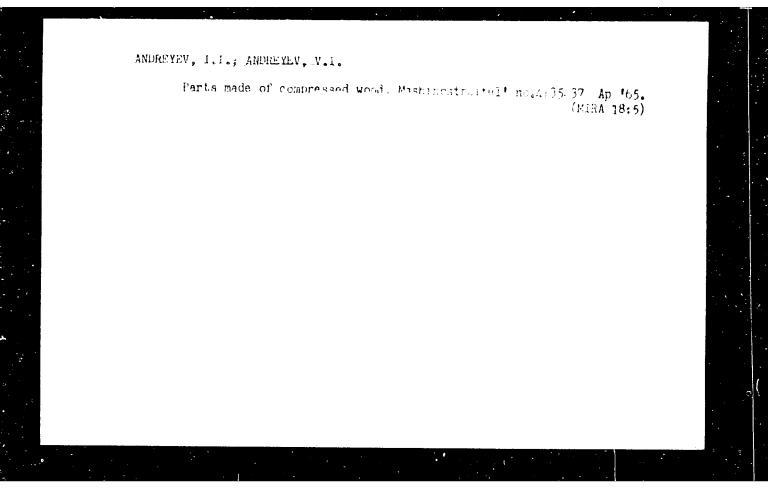
(Gas burners)

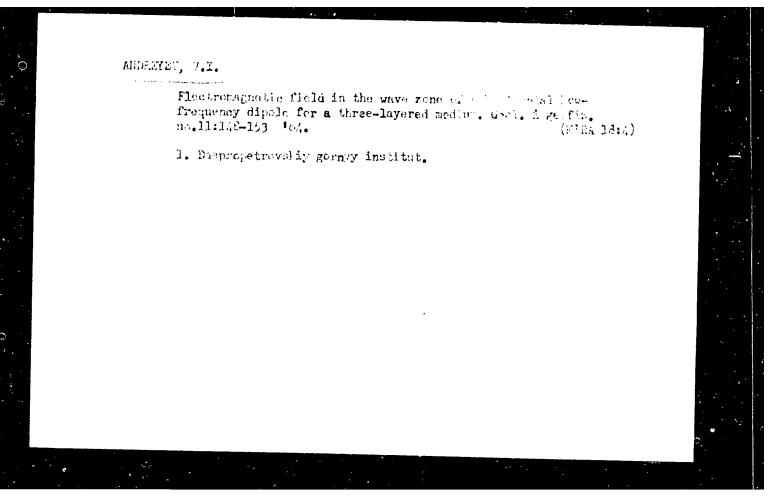
MIGENTEY, V.I. Refect of mechanical strains on magnetic properties of magnetite ores. Geol. i geofir. no.7:129-132 '60. (MIRA 13:9) 1. Zapadno-Sibirskoye geologicheskoye upravleniye. (Magnetite—Magnetic properties)

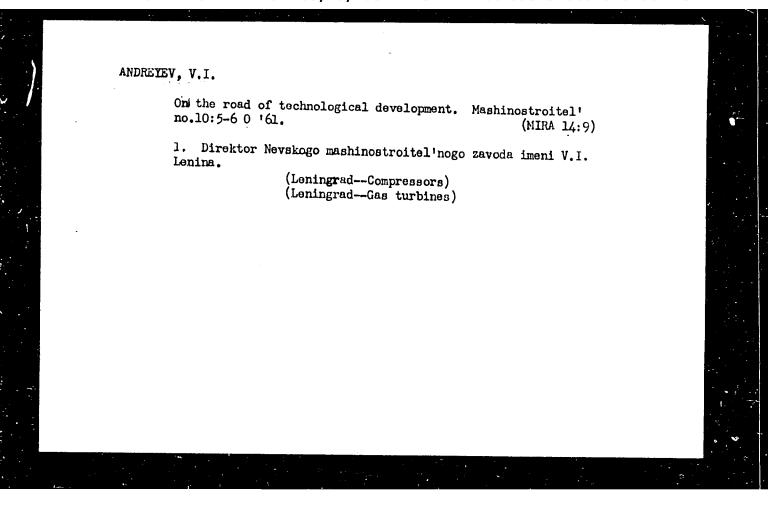








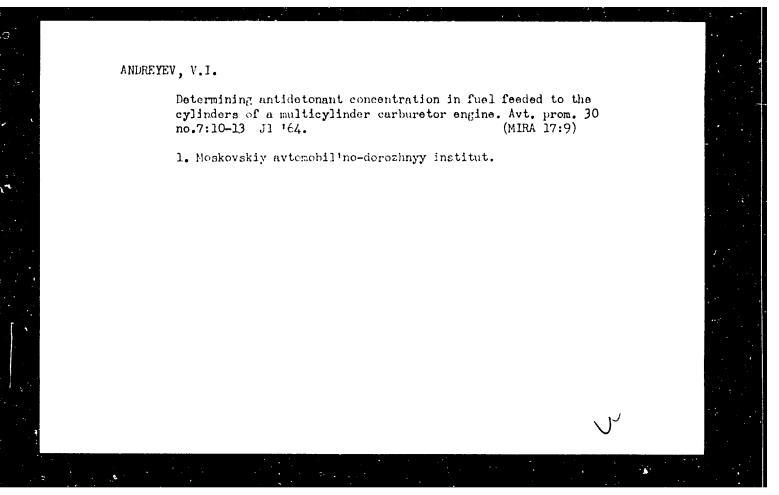


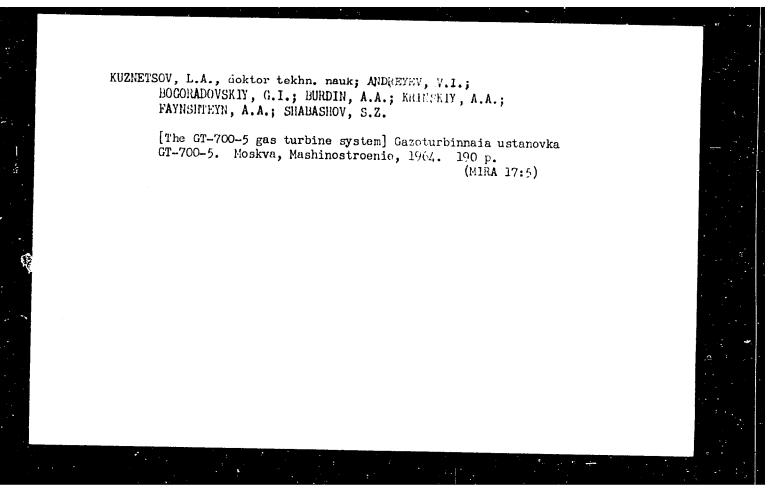


CHERNYAK, B.Ya.; ANDREYEV, Y.I.; MARKOV, V.P.

Nomuniform mixture distribution in the cylinders of carburetor engines. Avt. prom. no. 1:29-31 Ja '61. (MIRA 14:4)

1. Laboratoriya dvigateley AN SSSR. (Automobiles--Engines--Combustion)





L 21771-65 BAT (B) / EPF (D) / T PH-1 WE

ACCESSION RNI AP5001142

8/0113/64/000/007/0010/0018

AUTHOR: Andreyev, V.I.

TITLE: Determining the concentration of antiknock compounds in fuel supplied to the cylinders of multi-cylinder gasoline engines

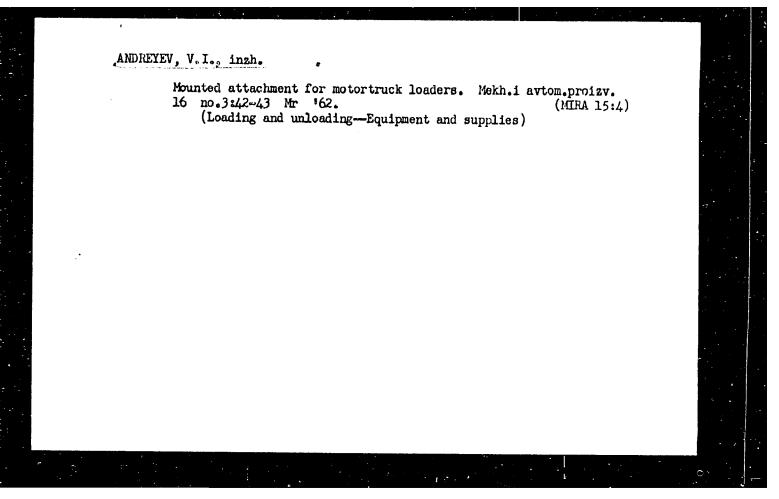
SOURCE: Aytomobil'naya promyahlemost', no. 7, 1964, 10-13

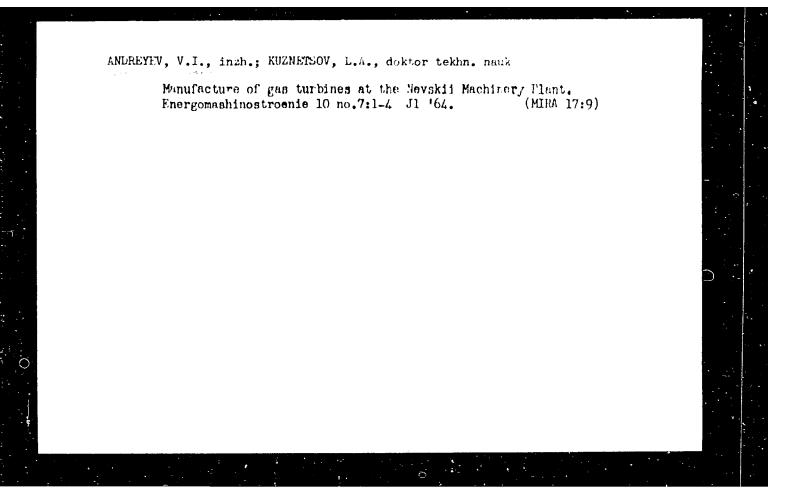
TOPIC TAGS: Internal combustion engine, gasoline engine, antiknock compound, multicylinder engine, fuel quality

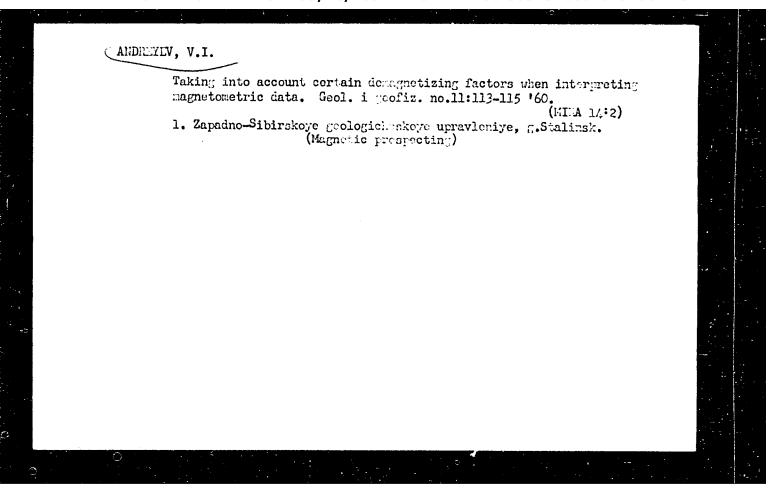
ABSTRACT: In standard gasoline engines; one carburetor delivers fuel to more than one cylinder. The quality of the fuel therefore varies in different cylinders, as tests have shown. One of the most important problems is the distribution of suttimock compound among the cylinders. Determination of the degree of irregularity of antiknock compound distribution in the different cylinders is connected with great difficulties. The present paper describes a method based on the effect of the antiknock compound for each individual cylinder. Engine knocks are determined by the cotane number of the fuel, which depends on the concentration of the antiknock compound in the fuel. An equation is given showing this relationship. In some cases, this relationship is not linear due to the type of fuel and

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engin the n did n manii tests compe	e using fuel consisting iddle cylinders had a st change the degree old was separated in were performed at symmes. Orig. art; has	g of 70% isocctane and 30% h in enriched mixture. Turning of irregularity of the fuel suc to fractions, depending on the beside of 1400 1800, 2000 an is: 4 figures and 2 equations	
ASSOC Highw	DIATION: Moskovski By Institute)	y sytomobil no-dorozhny y i	nstitut (Moscow Automobils and
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MALIKOV, K.V.; PISHVANOV, V.L.; SUNTSOV, G.N.; STAROVEROV, A.A.;
OVCHARENKO, V.M.; AMDREYEV, V.I.; MAZIN, B.S.; RUN'KCV, V.I.;
SEMAVIN, P.I.

Using sulfurous mazut in blast furnaces. Stal' 23 no.5:394-397
My '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki i Bekoretskiy metallurgicheskiy kombinat.
(Blast furnaces—Equipment and supplies)
(Mazut—Analysis)

ANDREYEV, V.I., inzh. po mekhanizatsii sluzhby puti

Cleaning the spacing between rails after snow storms. Fut'i put.khoz. 5 no.12:28 D '61. (MIRA 15:1)

1. Yuzhno-Sakhalinskaya doroga. (Railroads--Snow protection and removal)

ANDREYEV, V.I.; COLOUL'NIKOV, Ye.M.; OVCHARENKO, G.I.; KHASKIN, I.N.

Improving the standards of measuring equipment. Stan.1
instr. 32 no.9:33-36 S '61. (MIRA 14:8)
(Measuring instruments---Technological immovations)

s/121/61/000/009/004/006 DO40/D113

AUTHORS:

Andreyev, V. I., Goloul'nikov, Ve. M., Ovcharenko, G. I., and

Khaskin, I. N.

TITLE:

Raising the level of measurement techniques

PERIODICAL: Stanki i instrument, no. 9, 1961, 33-36

TEXT: The article lists measuring instruments and automatic measuring process control devices being currently produced by the zavod "Kalibr" ("Kalibr" Plant). The following items are mentioned. (1) A profilograph-profilemeter, developed by "Kalibr" in cooperation with Vsesoyuzny; elektrotekhnicheskiy institut im. V. I. Lenina (All-Union Electrotechnical Institute im. V. I. Lenin). It is the first Soviet instrument for surface roughness measurements in accordance with the international roughness criterion Re. (mean arithmetical deviation of microscopic unevenness from the mean profile line) that will be introduced in the USSR on January 1, 1962. The instrument consists of a post bearing the measuring table and electric drive, an electric measuring unit, and a recorder; all three separate units weigh 80 kg together and are transportable; the system produces 200,000 times

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Raising the level of measurement techniques

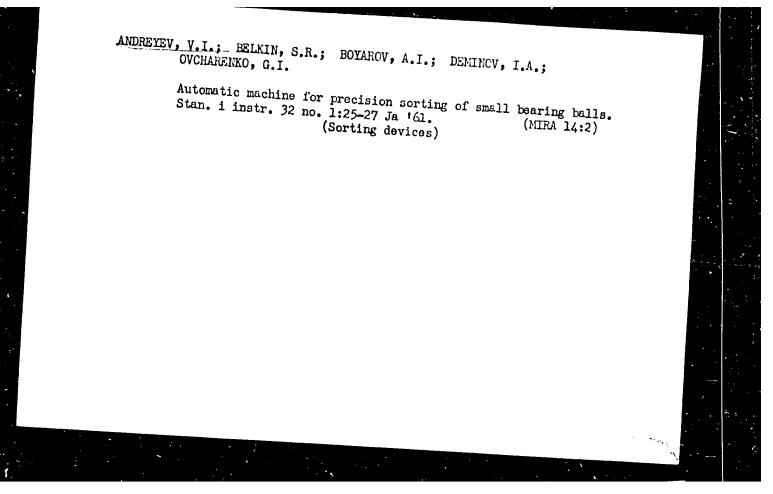
magnification, and the feeler exerts pressure not above 0.1 g. (2). A feeler type instrument checking roundness of workpieces by measuring induction and producing records by electro-thermic means on a metallized round diagram. It has been designed in cooperation with ENIMS and is also first of its kind in the USSR. (3) Indicator calipers with "cogged-lever" measuring head and dial, eliminating the usual rocking for finding the real diameter of the bore. Calipers for bores up to 18 mm in diameter have a combination of centering and measuring ball points, and calipers for 18-55 mm bores have a rigid centering bridge. Calipers for above 50 mm are pneumatic and universal, i.e. adjustable in a diameters range with the use of a special setting device that is seen in a photograph. Scales of the measuring heads are graduated in 0.001 mm divisions. (4) Levels with 0.01 mm divisions per meter, for measurement of incline on flat and cylindrical surfaces. The levels have a micrometer head for readings and an optic system for zeroing the bubble in the ampoule. (5) Gage blocks of much higher accoracy than previously, produced in accordance with the latest [0079038-59 (605@ 9038.59) standard requirements and having a cohesion force of 5.7 kg.f. (6) has automatic machine sorting balls 1.3 mm in diameter with an accuracy to hundredths of one micron. It is based on measurement of electric induc-

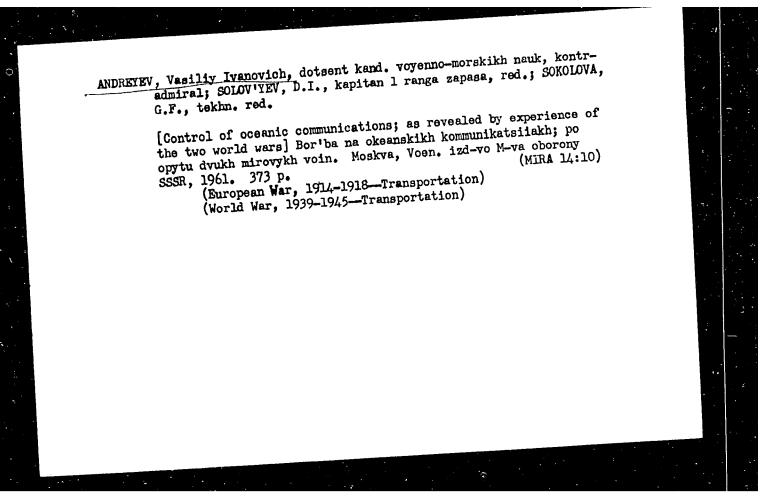
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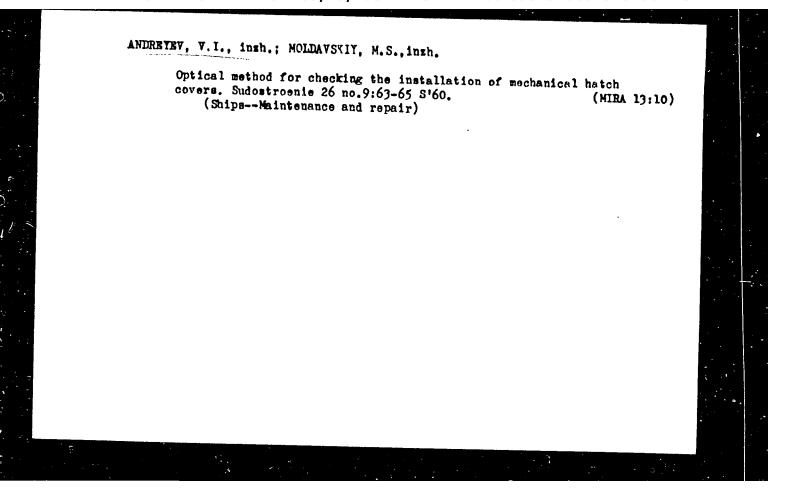
Raising the level of measurement techniques

S/121/61/000/009/004/006 D040/D113

tion and has the pickup and the electronic measuring unit of a "Kalak-5;" ("Kalibr VEI") profilograph-profilometer, and an automatic set-up system moving a master ball once in an hour into measuring position for corrections. The machine has been tested at the 4pm3 (4GPZ) plant. A range of such machines will be produced for balls from 3 to 40 mm and from 0.3 to 1 mm in diameter. (1) (4pm) ("Ralibr-MAMI") measuring and controlling devices for circular grinders with hydraulic drive working with plunge-cut process. They have been produced in co peration with MAMI, the Moskovskiy avtomekhanicheskiy institut (Moscow Automechanical Institute). The "Kalibr-MAMI" have a measurement range of 6-80 mm and make possible grinding of parts with up to 1.2 mm allowance. In test on "3151" and "3161" grinders of the Khar'kov plant they doubled the work rate, and grinding accuracy corresponded 1st class. (8) A series of measuring-controlling devices, designed at the OK & Mosgorsovnarkhoza (OKB of the Moscow City Sovnarkhoz), for automatic transfer lines. Three of such automatics are briefly described and shown in photographs: for internal combustion engine valves, for universal joint bearing rings, and for tractor wheel axles. Photographs are also given of the profilograph-profilometer, the three types of the calipers, the precision level, the ball-sorting automatic, and the "Kalibr-MAMI" There are 11 figures. Card 3/3







ANDREYEV, V. I.; KONYAKHIN, M. A.; POLYAKOVA, L. M.; SUKROKHO, T. A.; SMIRNOV, V. A.; KOZLOZ, N. D.; BYSTRAYAKOV, L. V.

"Urgent problems of modern dysentery in children."

Report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists. 1959

Determining the direction of the vector of residual magnetism from structural characteristics of magnetite ores of the Tashtagol deposit. Geol. i geofiz. no.5:121-125 '60. (MIRA 13:9) 1. TSentral'naya geofizicheskaya ekspeditsiya. (Gornaya Shoriya--Ores--Magnetic properties)

3 (7) AUTHORS:

Selivanov, R. I., Andreyer, V. I.

504/50-50-3-6/24

TITLE:

On the Level Conditions and the Probable Englation of the Smearing of England One oblice werenge is not gother to adjustific

Samerak ge mera;

PERIODICAL.

Mateum loglya i giduninglya, (913) Nr 3, pp 30 - 35 (USSR)

ABSTRACT:

The lake as distant in General Pasir 3010 a store one level. The was Coured by an accomplish in 1911. The gamps of the Macgab Rows was expensive by a wall of mosts of a long-b of 3-4 km and a long-b of move than 500 m. 3 years later a weak subtermed a later barse of the lake we the Besteng River formed which as still present. The take was often distributed by G. A. Shyllike and D. D. Bekinsich, 1906 by N. G. Mallibuted and C. K. Large. In 1995 I. A. Predictional why, in 1923 N. I. Kourhenavs-kip, 1926 V. S. Kolseniker, and 1934 P. P. Chayanka pointed to the publish of the production of the spect source of the Barton River into the Electrical at the lake. In 1996 the follow stadion Irlihot was askallached at the lake. In 1996 the following persons certical out investigations of the lake. In 1996 the following persons certical out investigations of the lake. To 1996 the following persons certical out investigations of the lake. To 1996 the following persons certical out investigations of the lake. To 1996 the following land of the Stadion V. V. Amilya

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On the Level Conditions and the Probable Ecolution SCV/30-36-36/34 of the Sarezskeye Lake

and A. V. Gurskiy, Director of the Pamirsk'y becamicheskiy sad (Pamir Betamical Gardin). In 1918 Abelow said that in about 20 years the filling up by the upper course of the Bartang will be out. (Ref 1). Also the two other scientists Ratsel and Gurskiy regarded this process as possible. The authors of the present paper are of the opposite opinion. They point to the hydrometrical investigations, according to which it was found that the level of the lake mose from its formation until 1945 and that since 1945 it is subject to cyclic fluthautions. The investigations showed that the plinable conditions did not considerably change in the course of the years and that they influenced only the seasonal fluctuations. In summer 1957 the Aliadomiya nauk Tadzhikskoy SSR (Academy of Sciences of the Taishikshaya SSR) organical as capabilition to this labo. A theodolite traverse was set up along the filling up from the level of the lake up to the place where the Abbon of the Bartang Thoma cut and the section was defermined. The investigations showed that in the exclution of the lake not the rising of the level of the lake will play the main part but the intensive penetration of the upper course of the Bartang and the subterranean washout

Card 2/3

On the Level Conditions and the Probable Evolution S07/50-59-3-6/24

of the northern part of the filling of. If the present rate of this penetration will remain unchanged and if the evolution of the intrenchments will continue, the formation of a vallay may take hundreds of years. In the course of this development the level of the lake will gradually sink. During the first great stage of the washout of the filling up the level will not drop the first stage is not to be expected. In all cases the development of the lake into a lake with drainage will take place slowly. There are 5 figures and 2 Soviet references.

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